

Installation Guide

Follow these quick steps to install your PC Card.

Important Note: You must first install the software before you plug the card into your computer.

Estimated Setup time: 10-15 minutes.

Install the MA521 Driver and Utility Software

- a. Turn on your computer.
- b. Insert the GearBox[™] CD for Wireless PC Card into the CD-ROM drive.
- c. The Autostart Wizard screen will appear, as shown here:



d. Click the Install Driver & Utility option.

e. If the Autorun wizard does not automatically start, go to your Windows Start menu and choose Run, and type D:/Setup.exe ("D" represents your CD-ROM drive letter), and click OK.

lun	?>
Type the name of a program Internet resource, and Wind	i, folder, document, or dows will open it for you.
Open: D:/setup.exe	~
	Cancel Browse

f. The InstallShield Wizard screen will appear. Click Next to continue.



The Choose Destination Location screen will display the default Destination Folder. If you want to change the default folder, click Browse and choose a different destination folder. Then, click **Next** to continue to the next screen.



h. Modify the Program Folders field, if desired. Click Next to continue. InstallShield will start copying files onto your system.

VETGEAR MA521 802.11b Wireless PC (ard	
Select Program Folder		
Please select a program folder.		
Setup will add program icons to the Program Fo name, or select one from the existing folders list Program Folders:	ider listed below Dick Next to	v. You may ty continue.
NETGEAR MA521 Adapter		
Existing Folders:		
Accessories Administrative Tools Other ICA Cliont v6.20 DVD Expense Impromptiu v5.0 Microsoft Office XPP Microsoft With Publiching PowerQuert Pathton Magic Pho 7.0 QM for Windows 2		
istalShield		
	< <u>B</u> ack	<u>N</u> ext>

i. Click Finish to complete installing the Configuration Utility.

2 Install the MA521 Wireless PC Card

- a. Insert the MA521 802.11b Wireless PC Card into available CardBus slot on your computer as shown here.
- Windows will automatically detect the MA521 802.11b Wireless PC Card and the Found New Hardware Wizard dialog box will appear.





- c. Follow the on-screen instructions to install the driver for the MA521 802.11b Wireless PC Card.
 - For Windows 98/Me users, once the [Please insert the disk labeled "Windows 98/Me CD-ROM," and then click OK window appears, enter the path corresponding to the appropriate drives and click OK. Usually these files can be found at C:\Windows or C:\Windows\System.
 - For Windows 2000 users, a Digital Signature Not Found message may appear. Click Yes to proceed.
 - For Windows XP users, a Windows Logo Testing Not Found dialog box may appear. Click Continue Anyway to proceed.
- d. Click **Finish** to complete the installation.

Verify the Driver Installation

- a. From the Windows desktop, right-click My Computer.
- Click **Properties**. b.
- c. Open Device Manager:
 - Windows 98/Me users Select the Device Manager folder tab.
 - Windows 2000/XP users Select the Hardware folder tab, ٠ and click on the Device Manager button.
- d. Double-click Network Adapters. There should be no vellow exclamation mark or red cross icon on the NETGEAR MA521 802.11b Wireless PC Card selection, as shown here.



e. Double-click NETGEAR MA521 802.11b Wireless PC Card. On the General folder tab, the Device Status window should indicate that the device is working properly, as shown here. The installation of the MA521 Wireless PC Card driver is now complete.

ieneral	Advanced Drive	r Resources Power Management
	NETGEAR MA52	21 802.11b Wireless PC Card
	Device type:	Network adapters
	Manufacturer:	NETGEAR
	Location:	CardBus Slot 1 (PCI bus 3, device 0, function
0000		
This of f you start t	device is working p are having problem	roperly.
This of If you start 1	device is working p are having proble the troubleshooter.	reperty.
This of f you start to	device is working p are having proble the troubleshooter.	ropedy.
This If you start to Device Use thi	device is working p or are having proble the troubleshooter. usage: s device (enable)	reperty.

4 Configuring the MA521 Wireless PC Card

Now that the MA521 802.11b Wireless PC Card has been installed. you can use the NETGEAR MA521 Wireless Configuration Utility to view and customize configuration settings and features.

<u>_</u> a. To display the NETGEAR MA521 Wireless Configuration Utility, open the NETGEAR MA521 Adapter programs group or double-click the MA521 Wireless MA521 icon that appears in the Windows System Adapter Tray, as shown here: SysTray icon

Configuration Note for Windows XP Users

After installing the MA521 Wireless PC Card on the Windows XP, it will display a Disable Windows XP Configuration Manager message, similar to the one shown here:

Yes

Click Yes to disable the Windows XP configuration utility and use the NETGEAR MA521 Wireless Configuration Utility, or click No to use the Windows XP configuration utility to control the MA521 802.11b Wireless PC Card

TGEAR MA521 Wireless Configuration Utility

- b. After choosing item 2, the Configuration section, you
- с.

network, while 802.11b Ad-Hoc will allow you to

connect to other stations when you want to set up a network without an Access Point.

- d. In the Network SSID section, using a pull down menu button to select a Network SSID (which is your network name) for connecting to an Access Point or station that is listed
- e. For 802.11 Ad-Hoc (Computer-to-Computer) mode, please select a **Channel** that you want to use.
- Enter a correct **Security** setting that matches your Access Point.

5 Configuring the MA521 for Security

Important Note: The WEP keys must be set up exactly the same on all wireless devices in order to communicate with each other.

To prevent unauthorized wireless stations from accessing data transmitted over the network, the **Security** section of the Configuration Utility offers secure data encryption, known as WEP, to better protect your data transmissions.

To activate the WEP Encryption,
make sure the Enable Encryption
(WEP Key) box displays a
checkmark (as shown above).

WEP Encryption options will be displayed. You may make changes, as detailed here:

a. Select one of the two options: Create with Passphrase or Manual Entry. A Passphrase makes it easier to enable WEP because it automatically

> generates the WEP hexadecimal numbers for the key. If the wireless network Access Point uses a Passphrase, you can also use that here. Otherwise, you will have to manually enter the hexadecimal numbers.

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Security -

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- Create with Passphrase option: pull down the Key Length options and select the 64-bit or 128-bit, then type in your Passphrase.
- c. Manual Entry option:
 - 1. Pull down the Key Length options and select the 64-bit or 128-bit, encryption method.
 - 2. In the **Encryption Keys** fields, specify the WEP keys: For 64-bit encryption:

Hexadecimal: 10 hexadecimal digits in the range of "A-F", "a-f" and "0-9" (e.g. 11AA22BB33)

For 128-bit encryption:

Hexadecimal: 26 hexadecimal digits in the range of "A-F", "a-f" and "0-9" (e.g. 00112233445566778899AABBCC).

d. When you are done, click the **Apply** button and click **OK** for the changes to take effect.

Note: For additional configuration information, please refer to the User's Guide on the GearBox CD for Wireless PC Card.



Configuration section, you	Statue Configuration Profile Ste Survey Statistice About
should see this screen :	Network Mode: [Infrastructure (Access Point)
Select one of the two options	Network SSID: ANY (First Available Access Point) Channel: 7
on the Network Mode:	Security
Infrastructure (Access Point)	C Create with Passphrase: 1111
or 802.11 Ad-Hoc	Manual Entry G Kan 1
(Computer-to-Computer).	С Кер 2: 222222222
Infrastructure mode will allow	С Кер 3. 333333333 С Кер 4. 444444444
you to connect to an Access	Advanced Setting
Point and your existing	OK Cancel Acc
n - +	

Wirele	ss Configuration Utility	×
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D: JANY 7	(First Available Access Point)	
ncryption	Key Length: 40 / 64 Bt	
with Pas	sphrase: 1111	
a enery sy 1:		
ny 2:	2222222222	
ny 3: ny 4:	444444444	
	Advanced Setting	
	OK Cancel Apply	

Technical Support

PLEASE REFER TO THE SUPPORT INFORMATION CARD THAT SHIPPED WITH YOUR PRODUCT.

By registering your product at *www.NETGEAR.com/register*, we can provide you with faster expert technical support and timely notices of product and software upgrades.

NETGEAR, INC.

Support Information

Phone: 1-888-NETGEAR (For US & Canada only) - 24 x 7 phone support See Support information card for other countries. E-mail: support@NETGEAR.com (24 x 7 online support) www.NETGEAR.com

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